

ABSTRACT

A disk drive reducing noise, including a disk tray sliding in and out of the disk drive and on which a disk is placed. A disk driving portion rotates the disk at a predetermined speed. A disk chucking apparatus holds the disk on the disk tray. A data recording/reproducing unit records data on the disk or reproduces data from the disk. An air guide plate is installed between an upper surface of the disk tray and an upper cover plate of the disk drive, parallel to the disk tray, and separates an air flow area. Air flow above the disk generated by the rotation of the disk is divided into turbulence under the air guide plate and turbulence above the air guide plate. Thus, the flow of turbulence is controlled by the air guide plate so that it does not collide with a front side portion of the disk drive. Also, because the velocity of turbulence of a free flow layer under the air guide plate that collides with the front side portion decreases, noise transmitted to the front side portion is reduced.